

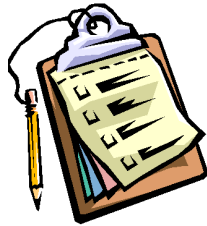


SPED410 – Survey of Assistive Technology

1

Agenda

- ▶ Case Study Assignment
- ▶ Mid Term Exam
- ▶ AT for Reading
- ▶ AT for Writing



2

AT Adaptations



Remedial
Vs.
Compensatory

3



**Performance Area:
Reading**

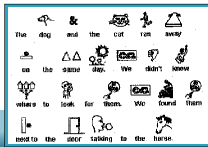
► If a student reads at a lower level than others or is struggling with the written word

This section is titled 'Performance Area: Reading'. It includes a bullet point: '► If a student reads at a lower level than others or is struggling with the written word'. Below the text are three illustrations: a children's book with a green pencil, a cartoon owl wearing glasses and reading a book, and a pair of hands holding a tablet displaying text.

Technology to Support Reading

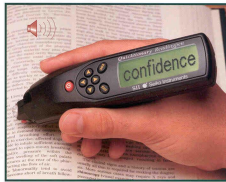
- Decoding
- Vocabulary
- Comprehension

This section is titled 'Technology to Support Reading'. It lists three areas of support: '► Decoding', '► Vocabulary', and '► Comprehension'. To the right of the list is a photograph of a female teacher sitting at a desk, leaning over and reading a book with a young male student.



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- ▶ Quicktionary Reading Pen
- ▶ Franklin Speaking Dictionaries



"ReadPlease
(readplease.com)



Cheap Text Readers

Text Aloud mp3 (nextup.com)

~Cheap (\$29); adds toolbar to web browser; must select text;

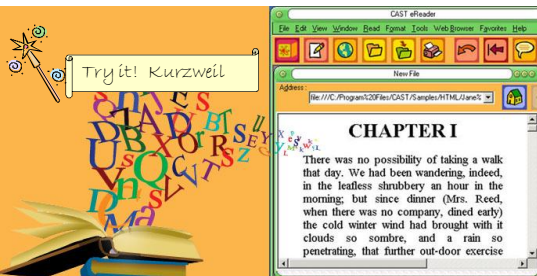
Universal Reader

(readingmadeeasy.com)

~Cheap (\$49); must select text; includes high quality voices

Scan & Read Systems

Kurzweil 3000, WYNN, TextHelp R&W Gold



Acquiring Electronic Text

Scanning

- Who will do the scanning?
- What will they scan?
- Can the person scan and edit?



Internet

- Recordings for the Blind and Dyslexic (RFB.org)
- Bookshare.org
- Audible.com

A Note About Study Skills

- ▶ Reading– more than sounding out words
- ▶ If an adult has not learned how to read for meaning, then this must be taught
- ▶ Technology can support studying, partnered with a Study Skills class

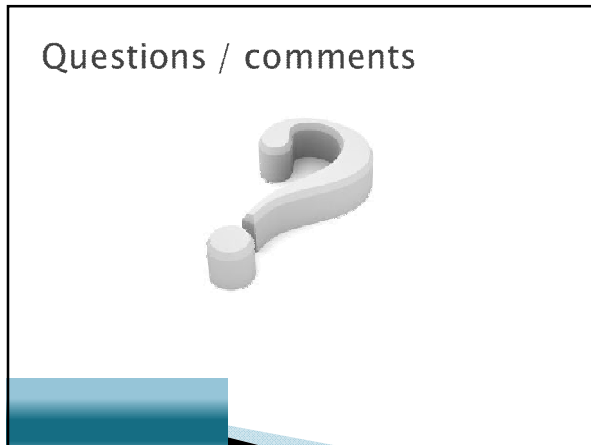
Research shows that TTS...

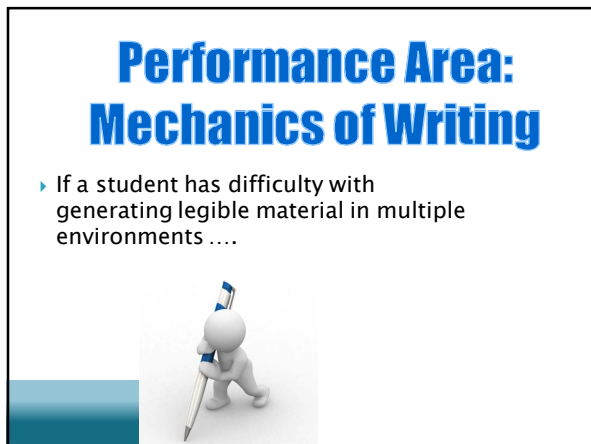
- ▶ Promotes access to text for wide reading
- ▶ Contributes to word recognition
- ▶ Provides a multisensory experience (hearing, seeing, sub vocalizing)
- ▶ Can be used to recreate the practice of repeated readings (best with recorded speech)

Electronic Book Readers



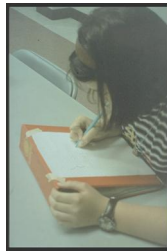
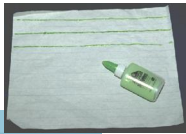






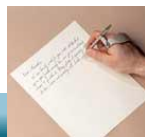
Adapt the Writing Surface

- ▶ Use a clipboard
- ▶ use a slant board
- ▶ Provide tactual boundaries



Adapt the Writing Tool

- ▶ Adapt pen & pencil
- ▶ Specialty writing instruments
- ▶ Headstick
- ▶ Mouthstick
- ▶ Writing aids



Use Writing Alternatives

- ▶ Label Makers
- ▶ Letter / name stamps
- ▶ Forms with check-offs



Performance Area: Spelling

- If a student spells at a lower level than others or is experiencing difficulty with spelling strategies



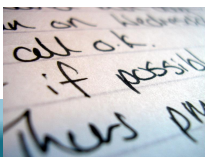
Spelling Supports

- Dictionaries
- Talking dictionary



Performance Area: Compose Written Material

- If a student has difficulty with composing written materials in multiple environments



Technology to Support Writing

- ▶ Pre-writing
- ▶ Draft
- ▶ Revising



Technology for Planning & Organization...

Supports the student in

- ▶ Determining the purpose or goal
- ▶ Identifying a topic and intended audience
- ▶ Generating ideas
- ▶ Organizing ideas
 - Into text appropriate structures

Technology for Text Production

Supports the student in

- ▶ Legible print production
- ▶ Transcription speed and accuracy
- ▶ Length of the composition
- ▶ Quality of the composition

Technology for Editing & Revising

Supports the student in

- ▶ Detecting & correcting errors
- ▶ Managing the revision process
 - Providing prompts about revision goals
 - Making revisions

Portable Word Processing



Netbook computers



Neo
from AlphaSmart

Note Taking



Livescribe Pulse Pen



iPOD recorders

Writing with the Computer



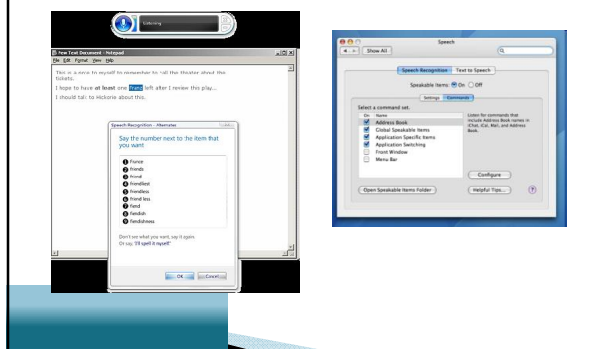
Word Talk toolbar

Word talk is a free plug-in developed by the [CALL Centre \(at the University of Edinburgh\)](#) for use with all versions of Microsoft Word (from Word 97 upwards)



This toolbar provides users with auditory support for their writing. In addition, words are highlighted while being spoken and there is a talking spell check feature.

Voice Recognition

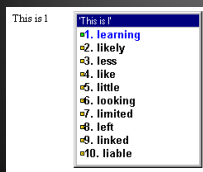


Auditory Support for Editing



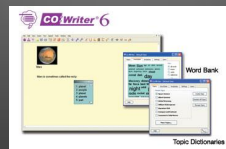
•Write OutLoud from Don Johnston

Word Prediction as a writing support

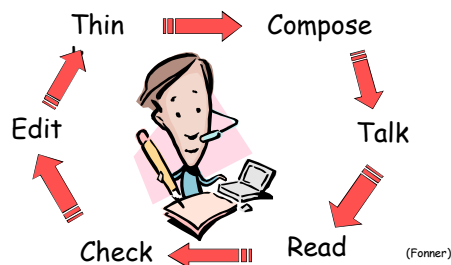


•Read & Write from Text Help

•Co:Writer from Don Johnston




The Process of Writing with Voice..



Questions??

Comments??



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PERCIVAL
"ANY QUESTIONS?"